

NEB 1233

-1391	-1381	-1371	-1361	-1351	-1341	-1331	-1321
*	*	*	*	*	*	*	*
AGCGGATAC AATTTCACAC AGGAACAGC TATGACCATG ATTACGCCAA GGTGGTACC GAGCTCGGTT CCACAGTAA							
pCR2.1				-BamHI-			
Lac promoter							
-1311	-1301	-1291	-1281	-1271	-1261	-1251	-1241
*	*	*	*	*	*	*	*
CGGCCGCCAG TGTCGTGGAA TTGGGCTTAC TATAGGSCAC GCGTGGTCCA CCGCCCGGCG TGGTAACCTT AAGAGAAGTT							
pCR2.1				-SmaI-			
GenomeWalker Adaptor							
cmAC01							
-1231	-1221	-1211	-1201	-1191	-1181	-1171	-1161
*	*	*	*	*	*	*	*
GGTAAATTC CTAGAGAGAA TTGTAATTAA TATAGAGAA TGATTTTAAT TCTAATGTG TATCACTTT CGATAAAGTT							
cmAC01 Genomic DNA							
-1151	-1141	-1131	-1121	-1111	-1101	-1091	-1081
*	*	*	*	*	*	*	*
AAATAAGTG TGTAGACGA CCATCATCT TAATCACTTT GTACTTATCA AATTGTGATC TGAGATTAA GTCAAAATC							
cmAC01 Genomic DNA							
-1071	-1061	-1051	-1041	-1031	-1021	-1011	-1001
*	*	*	*	*	*	*	*
ACACTAAAC AATGAAATG TATGGACAA TCACAATGGA AAATAAGTAT GATGATATCC ATCACTTTC AAGTCTAAC							
cmAC01 Genomic DNA							
-991	-981	-971	-961	-951	-941	-931	-921
*	*	*	*	*	*	*	*
CTAGGATATG TTTTGAATA TTGAGATT ATTAATTTAT TCTTTTATCC GTTGACAGTT TMTTTTGT TTAAGATGT							
cmAC01 Genomic DNA							
-911	-901	-891	-881	-871	-861	-851	-841
*	*	*	*	*	*	*	*
ATGTAAGAAA CGAGAAATA TGTGATTAAA CCAAGATGCG ATCAAAATA GAGCTAGATC CTAAAGATAT ATAAAGAT							
cmAC01 Genomic DNA							
-831	-821	-811	-801	-791	-781	-771	-761
*	*	*	*	*	*	*	*
GATCAACAC GATCAAAAG TTTCITTTG ATGATAATTA TCTTAAGAAC TTCAAGGTTA ATTAGATCT CTAAATTAA							
cmAC01 Genomic DNA							
-751	-741	-731	-721	-711	-701	-691	-681
*	*	*	*	*	*	*	*
AAATTTCAAT GATATGCGT CCGTGAACAA GAAAAACAT AAAGAACCA TGGTTGTCCT AATTTTGTGA GTAATTAAGC							
cmAC01 Genomic DNA							
-671	-661	-651	-641	-631	-621	-611	-601
*	*	*	*	*	*	*	*
GTATCTAAG ACACAAGTAA GAATGAAGTT ACCACATGTT AATCTAGATT CCAAACTTG AGCTGAGAG CAOSTTACGA							
cmAC01 Genomic DNA							

Fig. 1A

-1289	-1279	-1269	-1259	-1249	-1239	-1229	-1219
*	*	*	*	*	*	*	*
AGGAACACG TAATACGCTG ATTACGCCAA GCTTAAGAGA AMTGTGMAA ATTCTAGAG AGAATTGTAA TTAATATAGG							
HindIII							
pUC19				cmAC01 Genomic DNA			
-1209	-1199	-1189	-1179	-1169	-1159	-1149	-1139
*	*	*	*	*	*	*	*
AGAATGATTT TAATCTAAT GTTGTATCCA TTGTGATAA AGTTAAATAA AGTGTGCTAG ACGACCATCA TTCTTAATCC							
cmAC01 Genomic DNA							
-1129	-1119	-1109	-1099	-1089	-1079	-1069	-1059
*	*	*	*	*	*	*	*
ATTGTACTTT ATCAAATTG TATCTGAGAT TTAAGTCAA ATTCACACTA AAACAATCGA AATGTATGCG ACAATCACAA							
cmAC01 Genomic DNA							
-1049	-1039	-1029	-1019	-1009	-999	-989	-979
*	*	*	*	*	*	*	*
TGGAATATC GTATGATGTA TTCCATCACC TTTCAGTCT TAACCTAGGA TATGTTTTGG AATATTGTAG ATTATATAAA							
cmAC01 Genomic DNA							
-969	-959	-949	-939	-929	-919	-909	-899
*	*	*	*	*	*	*	*
TTATCTTTT ATCCGTTGAC AGTTTATTTT TTGTTTAAAG ATGTATGATA GAACGACGA AATATGTGAT TAAACCAAGA							
cmAC01 Genomic DNA							
-889	-879	-869	-859	-849	-839	-829	-819
*	*	*	*	*	*	*	*
TCCATACAA ATTAAGCTTA GATCTTAAG ATATATAAAA GTATGATCAA CAACTGACAA AACGTTCTTT TTCTATGATA							
cmAC01 Genomic DNA							
-809	-799	-789	-779	-769	-759	-749	-739
*	*	*	*	*	*	*	*
ATTATCTTAA GACCTTCAAG GTTAATTTAG ATCTCTTAAT TAAAAAATTT CATAGATAT GCATCCGTGA ACAAGAAAAA							
cmAC01 Genomic DNA							
-729	-719	-709	-699	-689	-679	-669	-659
*	*	*	*	*	*	*	*
ACATTAAGAA CCCATGGTTC TCCTAATTTT TGTAGTAAAT AAGCGTAGTT CAAGACACAA GTAAGAATGA CGTTACCCAA							
cmAC01 Genomic DNA							
-649	-639	-629	-619	-609	-599	-589	-579
*	*	*	*	*	*	*	*
TGTTAATCTA GATTCACAAA CTTGAGCTTG AGACCAAGTT ACGAAAATAA TCTACGAAAA CGAGTAAGTC GTCTAAGTTC							
cmAC01 Genomic DNA							
-569	-559	-549	-539	-529	-519	-509	-499
*	*	*	*	*	*	*	*
GTTTTCGTTT ATTGTGACAG TAAGATACT GTATTGAAAG AAGACGAAAA ATGGAAAAAA GTTAAAGAAG TAAGGAGGTG							
cmAC01 Genomic DNA							

Fig. 2A

```

-489      -479      -469      -459      -449      -439      -429      -419
  *        *        *        *        *        *        *        *
GGTGAGTCCA AAGGAAACAT ACCAAATTCA TGCAAGAAGCT ATGAGATTCA GAAATTAGAG GAAAGGTGTG GAAATCATGT
cm#C01 Genomic DNA
>

-409      -399      -389      -379      -369      -359      -349      -339
  *        *        *        *        *        *        *        *
AACTAAATTT AAAATACATA TAGGTACTAT TTCTTTCTCT TTCTTATTTG AASRAAGAGA NNAGGGGGGA ATTACNGTAT
cm#C01 Genomic DNA
>

-329      -319      -309      -299      -289      -279      -269      -259
  *        *        *        *        *        *        *        *
ATGGCATTGG CAGACATPAA AATAATAAAG TTAAATCAAA TTGGGTCCCA AACTCACCAA AGAGGAAATT CAGTGTGTGA
cm#C01 Genomic DNA
>

-249      -239      -229      -219      -209      -199      -189      -179
  *        *        *        *        *        *        *        *
TAAAGCCATT TAGCCAAAGC CAAAGOCAAA GCCACTCTCT CTCTTTCCCA CATACATGCA TGAAATTTCG TGGGCCCAT
cm#C01 Genomic DNA
>

-169      -159      -149      -139      -129      -119      -109      -99
  *        *        *        *        *        *        *        *
CTTTTATCA TCACATTTTT AATAATTFTA TCTTCTCTT CTCTCTCTT TCTTCTCTT TCTTCTCTT CTCTCTCTT
cm#C01 Genomic DNA
>

-89      -79      -69      -59      -49      -39      -29      -19
  *        *        *        *        *        *        *        *
TCTTTTCTTT ATCAATTTC TTCCACTTT CCATCTCAA ATAAATTTCG CTATAAATAC CCTTCATTA TAACTGTATC
cm#C01 Genomic DNA
>

                                TATA box
                                |
                                -39
                                *
transcriptional start site in Tomato E4
|
-9      |      12      |      translational start site
  *      |      *      |
CAACACACCC AGGATCCATT ATTAGAGATT GAGCC ATGG
          BamHI
__cm#C01__      __Tom E4 5'UTR__

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Fig. 2B

NEB 1233

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-1669      -1659      -1649      -1639      -1629      -1619      -1609      -1599
  *          *          *          *          *          *          *          *
AGCGGATAAC AATTTCACAC AGGAACACG TATGAACATG ATTACGCCAA GCTTGTAACC GAGCTGGGAT CCACTAGTAA
                                     HindIII      -BamHI-
____Lac promoter____>
____PCR2.1____>

-1589      -1579      -1569      -1559      -1549      -1539      -1529      -1519
  *          *          *          *          *          *          *          *
CGCGCGCCAG TGTGCTGGAA TTGCGCTGTG AATAAGACTC ACTATAGGAC ACGCGTGGTC CAGCGCCCGG GCCTGTAACT
____PCR2.1____>
____GenomeWalker Adaptor____>

-1509      -1499      -1489      -1479      -1469      -1459      -1449      -1439
  *          *          *          *          *          *          *          *
AGGAGCTAAA GGACGAAGTC AACATATATA AAATTACTTC AAGATAATTA AAATTAAAAA TACTTTATAT TTTATGGGCT
____MEL7 promoter____>

-1429      -1419      -1409      -1399      -1389      -1379      -1369      -1359
  *          *          *          *          *          *          *          *
TACATCTTCC TTCTCTCTTC TTCTTTTCTC TGCCTGGATT TCTCCCATC TATTCTTCTT TTACTCTCTA TTTTCTCTT
____MEL7 promoter____>

-1349      -1339      -1329      -1319      -1309      -1299      -1289      -1279
  *          *          *          *          *          *          *          *
TACATGTGTT AGATTGGGAT AACCAATCT GATTCTTCTC TATCGTCTTT CTCTCTTCTC TCCTTTTTTT TCCTGTGGA
____MEL7 promoter____>

-1269      -1259      -1249      -1239      -1229      -1219      -1209      -1199
  *          *          *          *          *          *          *          *
TTCTCTCCA TTGCTATAG TTTTCTCTC TTTTTTTTTT TACATGTAAC CCAATCTTAA AAGATGTGAT ATAAAGATC
____MEL7 promoter____>

-1189      -1179      -1169      -1159      -1149      -1139      -1129      -1119
  *          *          *          *          *          *          *          *
TTCAAAAAA AAAATTGTTT AGATTGGAGT AGCCAAATTT AACCAATGCG GTAAAAAATA TAAAGATGTC TAGACAATC
____MEL7 promoter____>

-1109      -1099      -1089      -1079      -1069      -1059      -1049      -1039
  *          *          *          *          *          *          *          *
TAAAGATGCG TGCACAAAAA GATTTAAAAA AATCGTTTAG TCAATCTTAA ACAATTGTAT AACCAATATA AAGATAGAA
____MEL7 promoter____>

-1029      -1019      -1009      -999      -989      -979      -969      -959
  *          *          *          *          *          *          *          *
TTGAAATAT AAATGGTTA GATTTGGCTA TOCAATTTTA AATGAACAAA TCTAAAGAT CGTATACCAA ATCTAAAGCA
____MEL7 promoter____>

```

Fig. 3A

-949	-939	-929	-919	-909	-899	-889	-879
*	*	*	*	*	*	*	*
TGCATACCA AATCTAAATG ATCATGTACC AAATATATTA TGCACATGT TGGCAGGGTG GTTACGAGAA CATTTTGTAT							
MEL7 promoter							
-869	-859	-849	-839	-829	-819	-809	-799
*	*	*	*	*	*	*	*
ATTTTCTATT ATGGGTTTGT AGAATTTTIT CATTTTGGAA ATTGTTCIAT ACAATATATA TATAAATATT TTACCACTTC							
MEL7 promoter							
-789	-779	-769	-759	-749	-739	-729	-719
*	*	*	*	*	*	*	*
GTTATATTTT CGAAAAGACC OCTTAATATA ATTGAATTCG CATTATATTA AAATTTTTC CCAAAAAAG TTAGCTATGT							
MEL7 promoter							
-709	-699	-689	-679	-669	-659	-649	-639
*	*	*	*	*	*	*	*
CCTATATATA ATTGATTC CATTATAGAA CAATTTTCCA AATGTAACAA ACATTTGAAA TTCTCGATAT AGAAAACATT							
MEL7 promoter							
-629	-619	-609	-599	-589	-579	-569	-559
*	*	*	*	*	*	*	*
TACTTATTTT GAATGGGAC ATATTCACAA GTTTATTCOA AAGTAACTT TGAAGGAAA GTTGATGTAG ATTACATCCA							
MEL7 promoter							
-549	-539	-529	-519	-509	-499	-489	-479
*	*	*	*	*	*	*	*
TATTTTGTGT TTTCATATG AATTTTCATG AAAATTAATA TGCACACAAA ATGATGTATG AGATTAAAC AAAGTTTATC							
MEL7 promoter							
-469	-459	-449	-439	-429	-419	-409	-399
*	*	*	*	*	*	*	*
GTTATGTGAT TCTTTTATTA AAAAACAAC AAAATTTTAA AACTGTTTG CAATAGACCA ATATAGTTAA TCCATCGTGG							
MEL7 promoter							
-389	-379	-369	-359	-349	-339	-329	-319
*	*	*	*	*	*	*	*
TCTATGTGAT ATAAATGTGA ATATTTTGT ATATTTAATA AATATTTTGA TTTATTTTGA TATATTGTGA TTTAGATAAC							
MEL7 promoter							
-309	-299	-289	-279	-269	-259	-249	-239
*	*	*	*	*	*	*	*
AAATATAGA TTTAATATT ATTTTATATC TTAATATATA CATTTGTATA TTTTTCIAT TTTAGACAT TTCTCTATT							
MEL7 promoter							
-229	-219	-209	-199	-189	-179	-169	-159
*	*	*	*	*	*	*	*
TTTATATTAAC ATTTTATATA CTAAATGAT TGCACACAC TATATATT TTTATCCAA GAAATATATG CTATATAATA							
MEL7 promoter							

Fig. 3B

```

      -149      -139      -129      -119      -109      -99      -89      -79
      *         *         *         *         *         *         *
TGGGTCMCTT TTAACAACCT CATGATAATT ATGAAAAATA AAATAAAATT TAATTATATA ATTCATTTCA TCCTAATOGIA
_____MEL7 promoter_____>

                        TATA box
      -69      -59      -49      -39      -29      -19      -9      2
      *         *         *         *         *         *         *
CAAGCTAGAT ATTACTATAT CAACAACITT GTGTAATAAA AGGGCAAGAA ATTAAGCATT ATCGTGTGAG CCACITTTTC
_____MEL7 promoter_____>

                        Mel7 translational start site
                        <cmDruNcoSt
                        |
      12      22      32      42      52
      *         *         *         *         *
TATATCTAGA GATAGAAGGT TTAAMTCAT GTCTCATTT GGAAGCTTG TGAGT
      TTCCA AATTTTgGTA CcGAGAgTAA CcTTTCG
      -NcoI-
_____MEL7 promoter_____>
                        _____MEL7 cds_____>

```

Fig. 3C

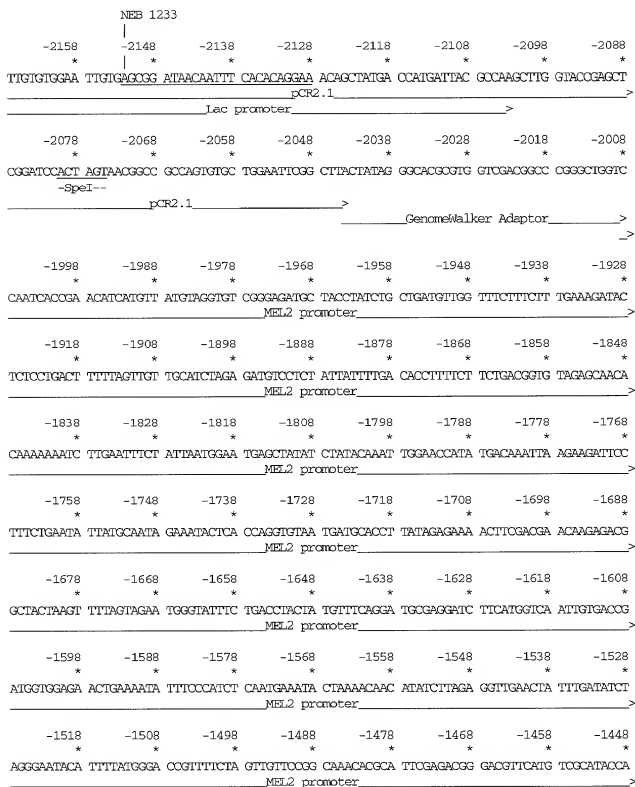


Fig. 4A

-1438	-1428	-1418	-1408	-1398	-1388	-1378	-1368
*	*	*	*	*	*	*	*
CGGAGGATCC	GCATGTAAAC	TATCAAGCA	ATACTTCAC	CCCTTTTGTC	TTCCTTATATA	ATATATTTT	TACTTACTAA
MEL2 promoter							
-1358	-1348	-1338	-1328	-1318	-1308	-1298	-1288
*	*	*	*	*	*	*	*
GATAGTTTTC	AAATTGTGTG	TAGAATCGAA	TGCTGGAAC	TCAGTCTCAG	CTTACCTCAG	TGGGTACTTA	GCCACTCTCT
MEL2 promoter							
-1278	-1268	-1258	-1248	-1238	-1228	-1218	-1208
*	*	*	*	*	*	*	*
GCGGACAAGA	TATGCGAGAT	GCGGTGGAT	AGAAGATTGG	ACTACTCAA	AGGCTTGGT	TGGGGACTTA	AGTCTAGGCG
MEL2 promoter							
-1198	-1188	-1178	-1168	-1158	-1148	-1138	-1128
*	*	*	*	*	*	*	*
CCACAGACG	GCCAGTGTGA	GTAGTTCAC	GACTCATGT	TGTGTAGTCA	CGGTAGAGCT	CCAAATTATG	ACTAAGCTTG
MEL2 promoter							
-1118	-1108	-1098	-1088	-1078	-1068	-1058	-1048
*	*	*	*	*	*	*	*
ATCAAGCTGT	GCAACGGATT	GAAGACAAA	CAAGAAATCA	CGATCGGTTA	GCTTCAAAAG	TGGAATGAAT	GTGAAGTTC
MEL2 promoter							
-1038	-1028	-1018	-1008	-998	-988	-978	-968
*	*	*	*	*	*	*	*
ATAGAAGACA	TGAGTCGGCG	ACAGTAAGGA	CCACACACTT	ATCTTTAGCT	TTGCGATACG	TATANNATTT	TCCATATATC
MEL2 promoter							
-958	-948	-938	-928	-918	-908	-898	-888
*	*	*	*	*	*	*	*
TTAAGTTTTT	GAATTACAGT	ATTCAGTGAT	GAATAGCATA	TATAATGAAC	AAAGTAGACC	ACTTTTGAT	AATTGTAGGA
MEL2 promoter							
-878	-868	-858	-848	-838	-828	-818	-808
*	*	*	*	*	*	*	*
OCTGTGTGT	AGAATGGCAT	ATGAGGCTCG	TTAAAAGACA	TACGATTTTC	TTTGTGCTTT	TTTTAAGCAG	GAATTTTTTT
MEL2 promoter							
-798	-788	-778	-768	-758	-748	-738	-728
*	*	*	*	*	*	*	*
TATTGTATTT	ATGAACITTA	TTACATTTCT	TGAATTTCT	TGTATATAGA	AGATTTAATT	TTTTTGTGAA	TTTTTGTGTT
MEL2 promoter							
-718	-708	-698	-688	-678	-668	-658	-648
*	*	*	*	*	*	*	*
TATTTTGTAA	TTTACTAATT	TATTTTAATT	TTTCTTTAAT	TGAATCGATA	ACGAATGCAA	ATATTTTACG	AAAAAACTTT
MEL2 promoter							

Fig. 4B

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-638      -628      -618      -608      -598      -588      -578      -568
  *        *        *        *        *        *        *        *
ATAGGAAGAT ATTTCAGAAA AATAAAAAAT TACATATTTA AAATATTTTT CGAGCGATTA CATATGTGGA AAATATGGTG
MEL2 promoter_>

-558      -548      -538      -528      -518      -508      -498      -488
  *        *        *        *        *        *        *        *
CAAACATCAG ATGGGGGATG GTTATTACCG ACGCATGAAT GACACCGAAT ATATAAAGT AAGGAATAGT TAITTOGTAC
MEL2 promoter_>

-478      -468      -458      -448      -438      -428      -418      -408
  *        *        *        *        *        *        *        *
GCATAACTGC TGTCGGAACT GTGGAGTTA GTTCTCGACA TTATTAACAC TTACGTGAC GTTTTTATGC ATGCGGAGTC
MEL2 promoter_>

-398      -388      -378      -368      -358      -348      -338      -328
  *        *        *        *        *        *        *        *
GCTOCATTC TTGTAGTGAA GAAATTTTGC CTATTAATGTC GGTTTAAAC CGACATTAAG GCGCAAAATT CTCTAGTGC
MEL2 promoter_>
Imperfect inverted repeat

-318      -308      -298      -288      -278      -268      -258      -248
  *        *        *        *        *        *        *        *
ATAATCATA TMCAAAAGT CAATTCGAAA AATTACATTT CTCTAGAAAT TCGTGTGAA CAATTGTAT AAAGGTTTAA
MEL2 promoter_>

-238      -228      -218      -208      -198      -188      -178      -168
  *        *        *        *        *        *        *        *
AGTGAATTGA AAATTTCAAA ACGTAATTGG ATTACGCGAG AAAATATATTT TAATCAOAT TCAAAAGTTA TTAAACATGA
MEL2 promoter_>

-158      -148      -138      -128      -118      -108      -98      -88
  *        *        *        *        *        *        *        *
AAAAATATGA AGATAAGATT TCAAAATTAC GTAAATTACT TCTACGTTTC TTCTCTTCC CTTTAGTAC TTCACATCA
MEL2 promoter_>

TATA box
| -78      -68      -58      -48      -38      -28      -18      -8
  *        *        *        *        *        *        *        *
TCTTTATATA CGTTCATCC CTTCACATTC TCATACAAA TTCTCTTTCA ATATCAACTC TCCTCTCTTA ACTCACCTTT
MEL2 promoter_>

MEL2 translational start site
| <MEL2_Nco_R
1 3      13
* *      *
TTTTCAAATG GAAACATG C AAC
AAAGggTAC CTGTGTTAC TTG
-NcoI--
pro_
MEL2 cds_>

```

Fig. 4C

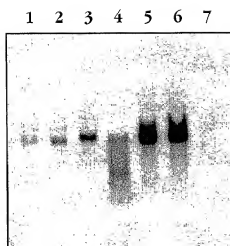


Fig. 5A

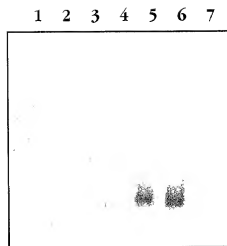


Fig. 5C

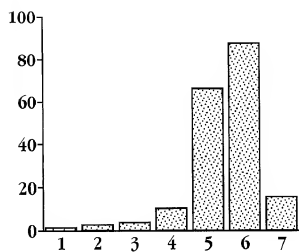


Fig. 5B

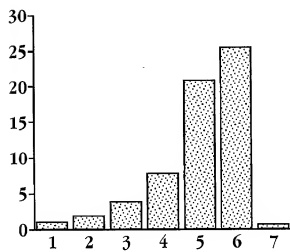


Fig. 5D

-968	-958	-948	-938	-928	-918	-908	-898
*	*	*	*	*	*	*	*
TGGAAITGIG AGCGGATPAC AATTTCACAC AGGAACAGC TATGACCATG ATTAGGCCAA GCTIGGTAC GAGCTCGGAT							
BamHI>							
pCR2.1							
Lac promoter							
-888	-878	-868	-858	-848	-838	-828	-818
*	*	*	*	*	*	*	*
CCACTAGTAA CGGCGGCAG TGTGCTGAA TTGCGCTAC TATAGGGCAC GGTGTGTGCA CGGCGGCGC TGTGAAATTT							
pCR2.1							
GenomeWalker Adaptor							
6E>							
-808	-798	-788	-778	-768	-758	-748	-738
*	*	*	*	*	*	*	*
TGAAAAGTAA GGAGATATTT TTACATATA AGAGATATTT TTTATAATGT AACATTTTTT TTAGTAGACG GTTAGAGTGA							
6E melon genomic DNA							
-728	-718	-708	-698	-688	-678	-668	-658
*	*	*	*	*	*	*	*
GTTAGGTTAA AGAAGGAAA ACTATAAAAT AATTTTTAAT TATTAATATC ATAAACAATA CTTTGTATTC TATATTAATT							
6E melon genomic DNA							
-648	-638	-628	-618	-608	-598	-588	-578
*	*	*	*	*	*	*	*
AAAATGACTA TTGAATGTIT AAGATGTAGG TATCTAAGGA CAAGAAGTCT CGAGTTCAAA TCTTCAAOCT CAAATATATC							
6E melon genomic DNA							
-568	-558	-548	-538	-528	-518	-508	-498
*	*	*	*	*	*	*	*
TGCAAGATAG TAACTAATGA ATTATATTTG ACTAAATCAT GTAGCAAAAG AAAATCAAAAT TTATCATGTT AATATGGTC							
6E melon genomic DNA							
-488	-478	-468	-458	-448	-438	-428	-418
*	*	*	*	*	*	*	*
AAGCGGAGC ATTACAACA ACAATTCATA TTTGTGGTIG ATAGTACTTG ACTAGATTTT AGAGAGTACT TGACTAGAT							
6E melon genomic DNA							
-408	-398	-388	-378	-368	-358	-348	-338
*	*	*	*	*	*	*	*
AAAAATTTGG GGAACACTA CGAATTCAGC TTGCTTGTCT TAGCAATTAA GGTATCAOCT CTTAGTCTAT AGCTTGGTC							
6E melon genomic DNA							

Fig. 6A

-328 -318 -308 -298 -288 -278 -268 -258
 * * * * * * * *
 GCIGCATPAA ACGGTATTCT CACACTTTTC TTTCCTTTTT ACAGCACCAG TOCGGTATAT GGCTCCOCCA CTTTCTAOC
 _____ 6E melon genomic DNA _____>

-248 -238 -228 -218 -208 -198 -188 -178
 * * * * * * * *
 TCCCGAATC CAGGOCAGTT GCGAACATGC GAAGCAGCAA GTACATATTT GTCATTTTTC ATTACACAAA ATGACACGTC
 _____ 6E melon genomic DNA _____>

box

TATA
 -168 -158 -148 -138 -128 -118 -108 -98
 * * * * * * * *
 GGTGTCTMT TATGTAATTA AGCTACAAAG CCAOGGTTAG TTTCGGAACC CCCACGATCC AGTACTTTAG TGCTCTCTMT
 _____ 6E melon genomic DNA _____>

-88 -78 -68 -58 -48 -38 -28 -18
 * * * * * * * *
 AAATCTTGA AGCAACGCTT TTACCGGAAT CAATCAITTA GGTATCCCAT TTTCATCTAT CAATTCACOC TTGAACCTGC
 _____ 6E melon genomic DNA _____>

6E translational start site

|
 <6E MelNcoP

-8 1 3
 * * *

TTTTCCCGGC ACGSACT ATG GGC TC

AAAGGGGCGG aGCTGg TAC CGG A

--NcoI--

_____ 6E melon genomic DNA _____

Fig. 6B

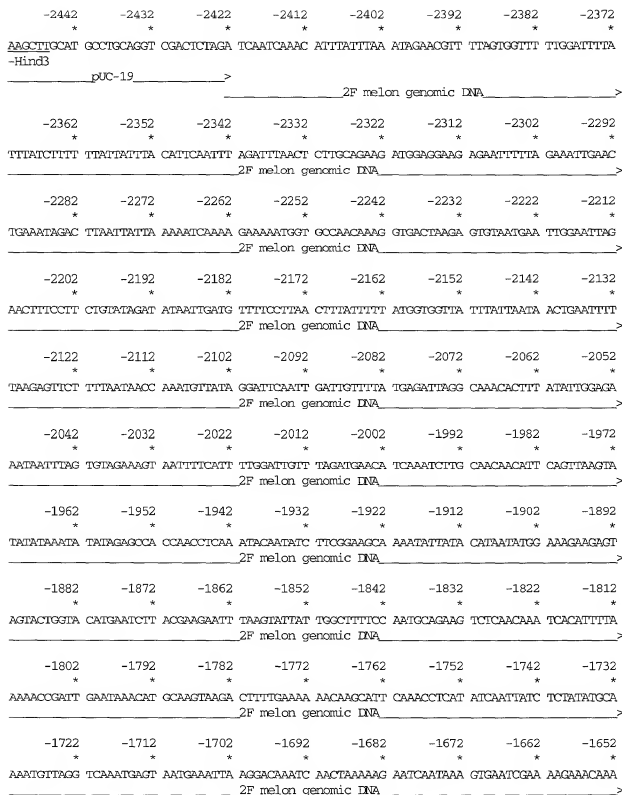


Fig. 7A

-1642 -1632 -1622 -1612 -1602 -1592 -1582 -1572
 * * * * * * * *
 TATCAATCAA ACCTAATGTA TACGTGATG ATGATGCAAT GGTGTTTGG ATATGGACAT TTGTATAAAC AACAAACCTC
 2F melon genomic DNA

-1562 -1552 -1542 -1532 -1522 -1512 -1502 -1492
 * * * * * * * *
 CACTCCAAAT CGAGAAGAGA GGCATTGAGT GACAGATTAG TGCCCTATTG AAGAGGGTAA GTCCAAAACA AACAAACAC
 2F melon genomic DNA

-1482 -1472 -1462 -1452 -1442 -1432 -1422 -1412
 * * * * * * * *
 AAAACATGTT GAAGAAATGT TATGAATAAA TGGCAGGGAA AGACATGGTT GTACATGTGG TGTGAGTTTT CTCTCTTCAA
 2F melon genomic DNA

-1402 -1392 -1382 -1372 -1362 -1352 -1342 -1332
 * * * * * * * *
 ATCTGTGATT AAATTGGATT ACGACCCAC AAGAGAAACA CIGTTTGGAA ACCATGACAG GGCCTACCCA TGGCGTGAAT
 -NcoI-
 2F melon genomic DNA

-1322 -1312 -1302 -1292 -1282 -1272 -1262 -1252
 * * * * * * * *
 ATCAAGATTT TAATTAATTA AGCTCTCATC CCGCGCATTC GTTTTTTTAT TCGATTCTTA TCTTATATTT TATATACGAA
 2F melon genomic DNA

-1242 -1232 -1222 -1212 -1202 -1192 -1182 -1172
 * * * * * * * *
 TAATTCCTGA GTTTGATTC AATTAGTTC GTCAATAGTA ATATTTTAAA CTATGTGTAAT ATATAAAAG TAAATGCGAA
 2F melon genomic DNA

-1162 -1152 -1142 -1132 -1122 -1112 -1102 -1092
 * * * * * * * *
 TGATCTAAT AGTATTCAC TTTATATCACT CCTCTCTTGA GTAAAGTTTT TAAATGCGA AGGGAATGG AATACAGCT
 2F melon genomic DNA

-1082 -1072 -1062 -1052 -1042 -1032 -1022 -1012
 * * * * * * * *
 GTGATTTGGTA GTTAAATTC CTATTCGAG AGGTACTGT TTCTTACTTT ATATATATGG AGTATCTCT AATTCTTCAA
 2F melon genomic DNA

-1002 -992 -982 -972 -962 -952 -942 -932
 * * * * * * * *
 CTCCTCACTT CCATTTATAC AAGCAAAACA TTCAATACCA TACATGCATC TTTTGTAGAA GAAAAGAGT TCTCTCTGG
 2F melon genomic DNA

-922 -912 -902 -892 -882 -872 -862 -852
 * * * * * * * *
 ACTTTTCTTT TCAATTCAC TATGCACCTT TGTATTTTAA GTTTTATAT TTTTGTGTT TCTTCGTTT AATCAAGTTG
 2F melon genomic DNA

Fig. 7B

-842	-832	-822	-812	-802	-792	-782	-772
*	*	*	*	*	*	*	*
TTGTAATCAA CTTTATGTAT TCAAACACAT AGATATTTTG TTTAATAGTA TCAGTATATA ATAGGSGTAG AATAACCTTT							
2F melon genomic DNA							
-762	-752	-742	-732	-722	-712	-702	-692
*	*	*	*	*	*	*	*
CAATATGTG TTTTAAAAA ATCAATACAC TTTAAAAAAT AAAATAIGTT TAATTAGTGT AIGTTTTTCT TTTAAGTGT							
2F melon genomic DNA							
-682	-672	-662	-652	-642	-632	-622	-612
*	*	*	*	*	*	*	*
TAAACACGA TAAAAAGTGC TTTAACACTT ATAAAAAAT AGATTAATTT AAAGGAAGTT GTCTGAACGG CAAAATTGAC							
2F melon genomic DNA							
-602	-592	-582	-572	-562	-552	-542	-532
*	*	*	*	*	*	*	*
AAAATATAC AAAGTTTAAAT GAACATGTGT CGAAATGTTT CGAAGAGGAA AGAAAACATT AAGTTTGAAA TATCTOGAGT							
2F melon genomic DNA							
-522	-512	-502	-492	-482	-472	-462	-452
*	*	*	*	*	*	*	*
TAAATACATA TCAATCCATA GTATATATATA ACAAAACAAA CTTAAATCTG AAAAAAAT TGAATTTAAT AAGAAAAGA							
2F melon genomic DNA							
-442	-432	-422	-412	-402	-392	-382	-372
*	*	*	*	*	*	*	*
GATCAAACTC TTAATTTTTT AAAAAATTA TGGTGAAGAA AACTGAAAT TTTCATATAT TGTTTAATTT CAAATGATC							
2F melon genomic DNA							
-362	-352	-342	-332	-322	-312	-302	-292
*	*	*	*	*	*	*	*
CAAAAATTA AGTTAAAAA GCATTAAACA AAACAATCA AAACCTAGCT ACTACACATT TACGAAAAAT TATGATACAC							
2F melon genomic DNA							
-282	-272	-262	-252	-242	-232	-222	-212
*	*	*	*	*	*	*	*
AAAGGATTTT TGGGTGTAAA CATCTTTTTT ATTTTATATA CACCAACCT CGTATATATT CACACATAAA GAAGGAAAAA							
2F melon genomic DNA							
-202	-192	-182	-172	-162	-152	-142	-132
*	*	*	*	*	*	*	*
GAATTAATGC AAGGGTGTG CCAATTACGT ACCGTGTGTA TATCTACTC ATCCGTTAGG TTCTCAATC TCCTCTCTC							
2F melon genomic DNA							
-122	-112	-102	-92	-82	-72	-62	-52
*	*	*	*	*	*	*	*
CCTGCTCTC TAAATTAATC TGCCAGGAC CATATTTCTT TTTCATTTGT GTTGTTAAAA AGCCGAGAAT CGCAATCCTT							
2F melon genomic DNA							
-42	-32	-22	-12	-2	Translational start site		
*	*	*	*	*			
TTTCTCTCAC TCTTAATCA TTTCATCTC AAAAAAT A G ATCCGGCAC CATGG							
-BamHI- -NcoI-							
2F melon genomic DNA							

Fig. 7C

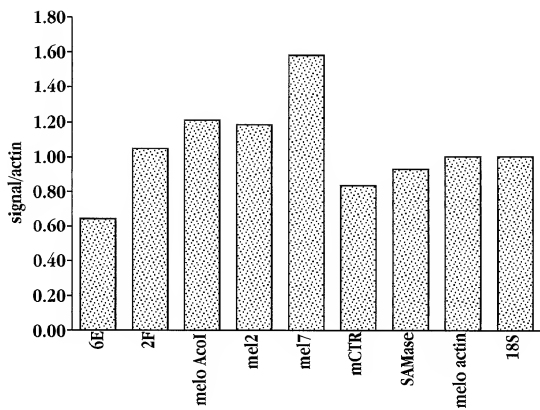


Fig. 8